
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Lee et al.

Attorney Docket No.:
NOVLP033X1/NVLS-000498X1

Application No.: UNASSIGNED

Examiner: UNASSIGNED

Filed: HEREWITH

Group: UNASSIGNED

Title: METHOD FOR REDUCING TUNGSTEN
FILM ROUGHNESS AND IMPROVING
STEP COVERAGE

INFORMATION DISCLOSURE STATEMENT
37 CFR §§1.56 AND 1.97(b)

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

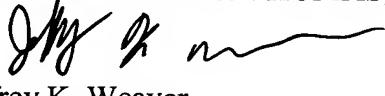
Dear Sir:

The references listed in the attached PTO Form 1449 may be material to examination of the above-identified patent application. Applicants submit the list of these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application. The above-identified application is a continuation-in-part of prior application U.S. Patent Application No. 09/975,074. This prior application is being relied upon for an earlier filing date under 35 U.S.C. § 120. Because the listed references were either cited by the PTO, or submitted to the PTO in the prior application, under 37 CFR § 1.98(d) Applicants submit that copies need not be provided.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is: (i) filed within three (3) months of the filing date of the above-referenced application, (ii) believed to be filed before the mailing date of a first Office Action on the merits, or (iii) believed to be filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. NOVLP033X1).

Respectfully submitted,
BEYER WEAVER & THOMAS, LLP



Jeffrey K. Weaver
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Form 1449 (Modified)		Atty Docket No. NOVLP033X1/NVLS- 000498X1	Application No.: UNASSIGNED
Information Disclosure Statement By Applicant		Applicant: Lee et al.	
(Use Several Sheets if Necessary)		Filing Date HEREWITH	Group UNASSIGNED

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A1	6,143,082	11/07/00	McInerney et al.			
	A2	5,795,824	08/18/98	Hancock			
	A3	4,804,560	2/89	Shioya et al.			
	A4	5,661,080	08/97	Hwang et al.			
	A5	5,726,096	3/98	Jung			
	A6	5,804,249	9/98	Sukharev et al.			
	A7	6,294,468	09/01	Gould-Choquette et al.			
	A8	5,391,394	02/95	Hansen			
	A9	6,245,654	06/01	Shih et al.			
	A10	6,297,152	10/01	Itoh et al.			
	A11	6,265,312	07/01	Sidhwa et al.			
	A12	5,956,609	09/99	Lee et al.			
	A13	6,309,966	10/01	Govindarajan et al.			
	A14	5,250,329	10/93	Miracky et al.			
	A15	6,066,366	5/00	Berenbaum et al.			
	A16	5,817,576	10/98	Tseng et al.			
	A17	5,326,723	07/94	Petro et al.			
	A18	5,028,565	07/91	Chang et al.			

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B1							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C1	George et al., "Surface Chemistry for atomic Layer Growth", J. Phys. Chem, 1996, vol. 100, no. 31, pgs. 13121-13131.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)		Atty Docket No. NOVLP033X1/NVLS- 000498X1 Applicant: Lee et al. Filing Date HEREWITH	Application No.: UNASSIGNED Group UNASSIGNED
	C2	Bell et al., "Batch Reactor Kinetic Studies of Tungsten LPCVD from Silane and Tungsten Hexafluoride", J. Electrochem. Soc., January 1996, Vol. 143, No. 1, pgs. 296-302.	
	C3	Klaus et al., "Atomically controlled growth of Tungsten and Tungsten nitride using sequential surface reactions", Applied Surface Science, 162-163 (2000) 479-491.	
	C4	Klaus et al., "Atomic layer deposition of tungsten using sequential surface chemistry with a sacrificial stripping reaction", Thin Solid Films 360 (2000) 145-153.	
Examiner		Date Considered	

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.